

CLAIMS

What is claimed is:

- 5 1. A method for manufacturing a nano carbon material, comprising the step of: forming a nano carbon material on a surface of a metal catalyst by means of electrolysis in an electrolysis solution containing an organic solvent, the semiconductor on which the metal catalyst is unevenly formed being used as a cathode.
- 10 2. A method for manufacturing a nano carbon material, comprising the steps of: forming a metal catalyst unevenly on a surface of a semiconductor by means of electrolysis in an electrolysis solution containing metal catalyst ions, the semiconductor being used as a cathode; and forming a nano carbon material on the surface of said metal catalyst by means electrolysis in an electrolysis solution containing an organic solvent, the semiconductor on which the metal catalyst is unevenly formed being used as a cathode.
- 15 3. A method for manufacturing a nano carbon material, comprising the steps of: forming a metal catalyst unevenly on a surface of a semiconductor by etching the metal catalyst on the surface of the semiconductor; and forming a nano carbon material on a surface of the metal catalyst by means of electrolysis in an electrolysis solution containing an organic solvent, the semiconductor on which the metal catalyst is unevenly formed being used as a cathode.
- 20 4. A method for manufacturing a wiring structure, comprising the step of: forming a nano carbon material as a wiring between two metal catalysts by means of electrolysis in an electrolysis solution containing an organic solvent, the metal catalysts, which are formed as protrusions on both ends of a wiring forming position, each being used as a cathode and/or an anode.
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